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June 1979

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MONTANA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL SCIENCES

Monthly Activities Report  
of the Air Quality Bureau

June, 1979

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1. Highlights:

Most of the staff attended an EPA training course on the control of particulate emissions which was held in Helena June 12-15.

A person was hired for the Environmental Specialist I vacancy.

Two staff members attended the annual Air Pollution Control Association annual meeting in Cincinnati, Ohio.

2. Ambient Air Quality Standards:

a. Standards Exceeded: Due to the vacancy in the Monitoring Section, this information is not available for June.

b. Air Stagnation Advisories: None in June

c. Laboratory Status:

Total Determinations for Month	1326
Total Samples for Month	347

Total Determinations for FY 79	25,234
Total Samples for FY 79	4,789

3. Permits and Tax Credits:

a. Construction Permits - Applied for

Department of Highways, Carbon County, hot mix plant  
Francis Tindall, Glacier Co., crushers  
Rehbein Contracting, Glacier Co., drum mixer and crushers  
R. J. Studer & Sons, Gallatin Co., Sweet Grass Co., crusher  
U. S. Gypsum, Lewistown, baghouse, and dust collector  
Washington Construction, Mineral, Sweet Grass and Big Horn Cos., crushers  
Wickens Brothers, Sanders Co., crusher  
Clark Brothers Contractors, Missoula and Ravalli Cos., crusher  
Clark Brothers Contractors, Mineral Co., crusher  
Gus Albert, Contractor, Sheridan Co., crusher  
McIntyre Construction, Pondera Co., gravel crusher  
B & N Construction, Inc., Glathead and Sanders Cos., crusher  
Dugdale Construction, Butte, batch plant  
Shell Oil, Richland Co., plant equipment



June, 1979

3. Construction Permits, Applied for, Continued

Gus Albert, Dawson Co., batch plant  
Champion Building Products, Darby, bag filter  
Wickens Brothers, Fergus Co., crusher  
Kaiser Cement, Jefferson, dry process addition to cement manufacturing facility  
Baltrusch Construction, Blaine, Hill Cos., crushers

Approved in June:

Rehbein Contractors, Mineral County, asphalt plant  
Rehbein Contractors, Missoula Co., mixer  
Century Paving, Sheridan, Daniels, Musselshell, Chouteau and Fergus counties, hot mix dryer  
Zook Construction, crushers  
Department of Highways, Fergus Co., hot mix plant  
Dept. of Highways, Custer Co., hot mix plant  
Empire Sand & Gravel, Big Horn, crushers and batch plant  
Peter Kiewit & Sons, North of Babb, portable crusher  
Rehbein Contracting, Mineral Co., asphalt mixer  
R. J. Studer & Sons, Carbon Co., crusher  
Baltrusch Construction, Blaine Co., gravel crusher

c. Tax Credits: None in June

4. Variance Status:

a. Current

Anaconda Company, variance from SO<sub>2</sub> emissions at copper smelter, expires June 30, 1979.

ASARCO, Rule 16-2.14(1)-S1470(2), Sulfur Oxide Emissions applicable to lead-zinc complex, final compliance due June 30, 1979.



5. Enforcement Actions:

a. Citations:

Willow Creek Lumber, Livingston, no thermocouple, Wood Waste Burner  
rule 16-2.14(1)-S14030

Burkland Studs, Livingston, opacity, Wood Waste Burner 16-2.14(1)-S14030

Spring Creek Forest Products, Judith Gap, permit violation

b. Notice of Violations - None

c. Order for Corrective Actions - None

d. Court Action - None

6. Tepee Burner and Open Burning:

Tepee Burners - number in operation: 20

Open Burning Permits Issued:

Kalispell	155	Sanders Co.	44
Cascade County	7	Yellowstone Co.	34
Lake County	45	Rest of State	569
Missoula Co.	7	Total	861

7. Source Tests Performed:

a. Agency Source Tests - None

b. Non-agency source tests: None

8. Field Investigations:

Brand S Lumber, Livingston, inspection  
Willow Creek Lumber, Livingston, inspection, Citation issued  
Park Lumber, Livingston, inspection  
Burkland Studs, Livingston, inspection, Citation issued  
Brand S Lumber, Lewistown, inspection  
George Berg Lumber, Lewistown, variance inspection  
U. S. Gypsum, Lewistown, inspection  
Spring Creek Forest Products, Judith Gap, inspection, Citation issued  
Park Lumber, Livingston, inspection  
Castle Mountain Lumber, White Sulphur Springs, inspection

9. Complaints:

Flathead Co. asphalt plant, Kalispell, dust, scrubber pump out, shut down  
Sewage Treatment Plant, Helena, odor, referred to Water Quality (3)  
Exxon, Billings, black smoke, investigation  
Kaiser Cement, Helena, white plume, lost bag in baghouse, will repair  
C & C Plywood, Kalispell, particulate, investigation  
Caïrd Engineering, Helena, smoke, investigation



9. Complaints, Continued

Equity Grain Elevator, Kalispell, dust, investigate on next trip  
Lewis & Clark County, Kier Road, dust, referred to county commissioners  
Exxon, Billings, smog, investigated  
Rocky Mountain Crushing, Anaconda, dust, investigation  
Stoltze-Conner, Darby, smoke, investigation

10. Data Processing Services:

- a. Ambient Data Summary
- b. Emission Inventory Status - no significant activities
- c. Prevention of Significant Deterioration:

Met on June 4 with Flathead Indian Reservation officials to discuss  
the Bureau's help on the redesignation analysis

- d. Modeling - no significant activities

11. Environmental Impact Statements:

Work is proceeding on the final Ambient Air Quality Standards EIS.  
This should be completed by September.

12. Status of Studies, Contracts and Reports:

Poplar River Study continuing to operate. Second year report will be  
done in July.  
Flathead Environmental Study continuing to operate. First Year report  
due in August.  
MAPS Meteorology studies continuing to operate. First year summary  
report due in July.  
MAPS Emission Inventory contract with MRI terminated.  
MAPS Historical Emission Inventory report being written.  
New contracts completed for counties to administer open burning programs.  
MAPS monitoring in Billings to hire a new operator - will begin work  
in July.

13. Schools and Training:

Smoke School held on June 8.  
EPA Training Class "Control of Particulate Emissions" attended by all  
staff members in Helena.

14. Public Hearings and Meetings:

- a. Public Hearings Held: None in June





14. Public Hearings and Meetings, Continued

b. Meetings attended:

Olsen-Elliott, Contractors, Helena, regarding DESPUR (fugitive dust study)  
Brand S Lumber, Helena, regarding Order to Take Corrective Action  
Flathead Indian Reservation PSD request, Helena  
APCA meeting, Cincinnati

c. Intra-staff meetings:

staff meetings  
MAPS staff meetings  
Staff meeting regarding permits  
Staff meeting regarding network review  
Staff meeting regarding emission inventory

15. Public Information Requests:

New rules were printed and sent to those requesting them  
Information on air quality in general was sent to school students for term papers  
Clean Air Act of Montana is being revised and will be printed and sent to those persons requesting; will also be handed out to industries on routine inspection trips

There are still a few requests for the Draft EIS on ambient standards  
Several requests were made for the 1977 Annual Summary on Air Quality  
Several requests were made for the Poplar River Report. These were all mailed out.

16. Other:

The Bureau's Network Review has been drafted and commented upon; the final version was written in June and submitted to EPA for their approval. Copies will be printed and will be available for distribution to the interested persons and general public.



MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES  
MONTHLY SUMMARY OF AIR QUALITY DATA

May 1979  
Page 1 of 2

Pollutant: Total Suspended Particulate					Units: microgram/m <sup>3</sup>			Page
AREA		HIGH READING			ARITHMETIC AVER.			
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	Comments	
140	Morton-Decker	46	79	79	34	5		
	Big Horn Co. Warren Ranch	52	52	100	20	5		
	Big Horn Co. KSHL	65	69	155	41	5		
	Billings City Hall	113	288	288	82	5		
	Billings Grand Ave. Sch.	111	302	302	80	5		
	Billings Central Park	236	246	246	66	5	3 exc Fed Sec Std	
	Billings Laurel Jr. High	72	81	111	40	5	1 exc MT std.	
	Laurel							
141	Hospital Roof	58	145	145	51	5		
	Great Falls Fire Sta. #1	110	189	189	91	5		
	Great Falls Kwan's Park	84	111	111	42	5		
142	Hiway Jct. Anaconda							
	Lincoln School	95	303	303	49	5		
	Anaconda Floral Park	80	112	112	57	5		
	Butte McKinley Res.	95	97	142	46	5		
	Granite Co. Dr. Canty Res.	85	181	181	67	5		
	Granite Co.							

\* - data unavailable at time of report.

Pollutant: Total Suspended Particulate					Units: microgram/m <sup>3</sup>		
AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	Comments
142	Greeley School Butte	144	196	196	91	5	1 exc Fed Sec Std
	Hebgen Park Butte	155	225	225	77	5	
	Tierney Res. Silver Bow Co.	75	80	81	37	5	
	Microwave Jefferson Co.	62	89	101	37	5	
	212 E. Pacific East Helena	170	170	201	79	5	
	Cogswell Bldg. Helena	82	211	211	63	5	
143	Lame Deer Rosebud Co.	20	20	34	6	5	
	Lindsay Dawson Co.	52	52	52	18	5	
	Fort Peck McCone Co.	61	61	61	12	5	
	BN Site Colstrip	82	82	138	25	5	
	McRae Site Colstrip	48	48	48	16	5	
	Border Site Scobey	37	37	80	12	5	
144	Anders Res. Col. Falls	375	375	375	133	5	2 exc Fed Pri Std
	Trailor NAAC Col. Falls	44	63	63	26	5	3 exc Fed Sec Std
	Ronan Lake Co.	147	168	170	77	5	

Pollutant: Total Suspended Particulate					units microgram/m <sup>3</sup>		
AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	Comments
144	Polson Lake Co.	149	149	149	54	4	
	Libby-Brown Lincoln Co.	610	610	1384	229	5	3 exc Fed Pri Std
	Kalispell-Strom Flathead Co.	118	343	343	98	5	
	Courthouse Roof Missoula	167	265	265	94.7	5	1 exc Fed Sec Std
	Lion's Park Missoula	134	419	419	108.2	5	
	Rose Park Missoula	122.6	317.3	317.3	92.2	4	
	Hoerner Wld.#1 Missoula Co.	78	118	118	40.8	5	
	Hoerner Wld.#2 Missoula Co.	56.5	157.7	201	42.2	5	
	Hoerner Wld.#3 Missoula Co.	97	97	124.8	36.2	5	
	Kalispell Airport Flathead Co.	74	120	120	57	4	

Pollutant: Respirable Particulate- sampler				Units: micrograms/m <sup>3</sup>			
AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	Comments
140	Central Park Billings						
	coarse						
	fine						
141	Kiwanis Park						
	Great Falls						
	coarse						
	fine						
	Lincoln School						
	Anaconda						
	coarse						
	fine						
	Hebgen Park						
	Butte						
	coarse						
	fine						
	Floral Park F.S.						
	Butte						
	coarse						
	fine						
143	Border Site						
	Scobey						
	coarse						
	fine						
144	Lion's Park						
	Missoula						
	coarse						
	fine						
	Courthouse Roof						
	Missoula						
	coarse						
	fine						
	Kalispell Airport						
	Flathead Co.						
	coarse						
	fine						

Data unavailable at time of report



MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES  
MONTHLY SUMMARY OF AIR QUALITY DATA

May 1979  
Page 2 of 2

Pollutant: Miscellaneous Continuous Data

Units: ppm

AQCR	AREA Site Location	HIGH READING		Running Year	Year-to- Date	No. of Mon. of Data	Comments
		Current Month	Year-to- Date				
140	Carbon Monoxide Fairgrounds Billings			***			
141	10th Ave. South Great Falls			***			
142	Alpine West Butte	2.5	16.0	16.0	1.26	5	
144	Lincoln School Anaconda			*			
142	Lion's Park Missoula	3.8	24.3	24.3	3.15	4	
142	Hydrocarbons Hebgen Park Butte			*			
144	Lincoln School Anaconda			*			
144	Lion's Park Missoula			*			
140	Ozone Central Park Billings	0.094	0.094	0.110	0.023	5	
142	Lincoln School Anaconda	0.062	0.062	0.062	0.037	5	
142	Hebgen Park Butte	0.064	0.068	0.077	0.042	5	
144	Lion's Park Missoula			*			

Pollutant: Miscellaneous Continuous Data

Units: ppm

AQCR	AREA Site Location	HIGH READING		Running Year	Year-to- Date	No. of Mon. of Data	Comments
		Current Month	Year-to- Date				
140	Nitrogen Dioxide Central Park Billings			*			
142	Lincoln School Anaconda	0.018	0.035	0.035	.004	5	
144	Hebgen Park Butte			*			
144	Lion's Park Missoula			*			
140	Sulfur Dioxide Central Park Billings	0.065	0.225	0.225	0.013	5	
142	Lockwood School Billings	0.190	0.350	0.350	0.010	5	
142	Laurel Farm Laurel	0.24	0.74	0.74	0.046	5	
142	East Stack East Helena			*			
142	East Helena Broudy Ranch East Helena			*			
142	Highway Jct. Anaconda	1.20	2.30	2.75	0.002	5	
142	Mill Creek Anaconda	1.36	1.62	1.62	0.036	5	
142	Lincoln School Anaconda	0.93	1.03	1.03	0.03	5	
142	Hebgen Park Butte	0.026	0.092	0.092	0.009	5	

\*\*\* - site discontinued.

\* - data unavailable at time of report.

Pollutant: Miscellaneous Indicators

Units:

AQCR	AREA Site Location	HIGH READING		Running Year	Year-to- Date	No. of Mon. of Data	Comments
		Current Month	Year-to- Date				
141	Dustfall - tons/sq. mile Mountain States Great Falls	10.79	21.62	21.62	17.10	5	
141	Fire Sta. #1 Great Falls	6.55	34.20	37.20	15.09	5	
140	Sulfation Rate - mg O <sub>3</sub> /100 sq. cm 1 mile NE Coop Billings	0.21	1.09	1.09	0.21	5	
141	Billings E. of Laurel Billings	0.30	1.43	1.43	0.91	5	
141	Stock Car Track Great Falls			**			
141	Phillips Ref. N Phillips Ref. E	0.589 0.503	0.617 0.503	0.617 0.503	0.303 0.339	4	
142	Great Falls Microwave East Helena	0.13	0.56	0.56	25.8	5	
142	212 E. Pacific East Helena	0.17	0.37	0.37	23.4	5	
142	East Stack Sta. East Helena	0.23	0.47	0.47	30.2	5	
142	Broudy Ranch East Helena	0.07	0.27	0.27	11.8	5	
142	2580 Prickly Pear East Helena	0.15	0.31	0.31	17.4	5	

Pollutant: Miscellaneous Indicators

Units:

AQCR	AREA Site Location	HIGH READING		Running Year	Year-to- Date	No. of Mon. of Data	Comments
		Current Month	Year-to- Date				
144	Fluoride Papers - mg/sq. cm/30 days Dehnbom's Mt Box Flathead Co.	1.07	1.07	1.07	0.77	5	
144	Anaconda South Flathead Co.	11.42	11.42	11.42	5.91	5	
144	Glacier Park #1 Glacier Nat. Park	0.26	0.69	0.69	0.43	5	
144	Glacier Park #2 Glacier Nat. Park	0.24	0.41	0.41	0.27	5	
144	Glacier Park #9 Glacier Nat. Park	0.27	0.36	0.36	0.31	5	
144	Fluoride Plates - mg/sq. cm/30 days Anaconda South Flathead Co.	26.22	26.22	26.22	9.41	5	
144	Trautler - NAAC Flathead Co.	1.73	1.73	1.73	1.25	5	
144	Glacier Park #1 Glacier Nat. Park	0.47	0.86	0.86	0.39	4	
144	Glacier Park #2 Glacier Nat. Park	0.39	0.54	0.54	0.35	5	
144	Glacier Park #9 Glacier Nat. Park	0.26	0.26	0.26	0.21	5	
143	SO <sub>2</sub> Bubblers - ppm Border Site Sobey	0.0	0.0	0.0	0.0	5	
143	NO <sub>2</sub> Bubblers - ppm Border Site Sobey	0.0	0.01	0.01	0.0	5	

\*\* - sample lost - no data.

